



Sept. 3," 1882, moned out of Kanab + can fed 16 mi, s.s.u, on the Kanab, Wash, jost north of law Pennan cliffe. Collected forsils Your The Middle bond of buestone soft 6th Sept 6: West dans He Kanab, Canan to the Will Charle

forile with E E/R tretimed to the Penn on cliffz to arrist CIA, IA, Rode 10 Aulis oust alang Kennam l-outerfr un search of formed with down. The Hayder made family at smiddle of Pennina. Währ Ett. H. collected forsils in Permain l-<, H, H. sketchnig. uth E.E. H. rode to the east of earth 5 m, in sea ch of water, (home ford) and also took a look at Perma Ground canto to

light calancol Johan diffe of the cross hedded laminar measured by Eingrocher Ang. 3 pot of water made. Locatique alur 3 miles toomed Johnson stone 2 2 2 2 Sept. 11"/82. Went in to Land to attend to errande telegrowth to Washington. Sept. 12/82 Bury all day cutting who heef four day mig. Sept. 13/82 With c, H. H. out an tte Pennan South of Kanab, gohlerttec-Ung forsits The double hand binestone extends

senal miles & Tild6 east a start to the month of the Johnson Wash below the Shinam & cliffe They retain the Chanceters guin the rection of 1879 the santions ine enhedded in the along 20 miles forteroh. Lext. 1-4 atturke gotore sugarde estatlate Hitte E. E. H. drane to head of thence to Lerny carran + Karob Deanab tho The Vernilpan cliffa, Sift. 15" Rainy day, ar Kand to canh Sept., 16" Anoned couch to johnson Danon, Selh . 1) " a.M. Rode af Johnson Cana to afarming Prene bedded sandston

See hg. 4) and after 8 uner mandi cann it nier afic. beels. Sept- 18. Cronecite, iarros Prateau to Horse Kock boldey, Campung odi Have Rock Spring, anteroacto the east of navojo week noticed festiman unestare belon Shivarufo conglin. erate. Line perse jon a merica. Goring south from 9 Where the roac entire to b, Romane the entre forman to promo of the Tovas and faulted; dann kejan reaching tte Cantonferouse Jord's. Framilia 1000/20 Parmin - 900 for

J. / / // at it at the the tie de la lieure de le mite semila Lon dal O had for it. 2/200 - ely/2 dil. East at a ran ing e 2º. oren Frink. in the vote the strata rise of tite west and il le fai = trans the granded of the head there assignably lucal faults causing a repetition of the beds. The hand fland the vally is quaternay t no come otrai is show between it & tie Canbonkeronz. Craned the valley of found the Upper Belleraphan Redz of the Canbonferon

11 it - 1/2 /2 - /2 collected a iner your 2/2 compre, Parer Tu Bur spirarbeds a peculian deposited frohe of jossies, amalle angui en fra y moste of the thestore below conted by the coloned limitare occurs. There conditrain of deposit, mon as notreed at rune trangen in Ranat cana ~ 1. F79. Lept. 20 Standed Winder Abouse
Rock Mining, at an 5 his who the vally due houts Shunaninh Congappear in comparatiel, elementations to de Carbonifierers linestore en the mest vide. Du medi 20 that ! Bennice is it of ted dan at the first of Consumer in a does not supplied a gar. fa 8 on 10 hills when it forman a riolque a hogback it calley of also co. Is

onto, en 10 e and ande. cost, Kalt Jerrish S. Cong. S. Cong The Pennin is here faulted and a are out the cont at the Buckskin wash 22 an 23 miles from the Home Rock Shy the Penin reste on only a the Candonia genez a se circa, Dee L9,16. Fie écorte: times famili vanir my mon In places Muis econcely a displacement & in other the don the end te at inco. this derendent the projection of the great smelle of the Canb-linstae directionalier chilis

Sept 211 C. The M. M. of the Bout the discussion of the same 1 = dec pacarled - and a lette e le se par par a contract of the contract of de yeller ist de de la familia 1 = 1.1 - 1. OCC - 2 - 2 - 1. in Marie de la Marie de la Colonia de la Col Illesonia milde, Bulling 10 per 12 a leger of some de les la come de la c Detrota of plan The coult of offers l'e du ch an foundt, alang the line of the Shunannak Cang-vas not determént al anothe fount a had mile moth a fand of soonaly la) pecis of Barronelically The state appeared to be about 150 been obone the Carb-l. He dectron of the Remi in upos not unliko that s. of Kom. of. The mortites in al and H. J. Cang - ane varmed in colon & banded, The anenace are-manle of Ce housh-real & chocolate calar 4thal dann to the the face of la carying the family tthe colon of the money is to a constitute li de Contonderos (9 le remainte rame. He Finanh, Cany. relaine its characteria tié feather & the strong skeep chardate coloned La contre lene attre la beny not early a, Bolan this haven, a belt of light bull collered La distance (25 fix E) occurs which a - a distance gives the infrancia du d'autie en n'el the congluna. Continuation make

Canan of the Pourice (20 & the Torngo " the S- cong, + place the Remin head & the Leds about the Congand alterfacte, fourter an ceredad in the The faut cutting fint they are & the the other according 00 Esacrapion has med the ridges a hallon of the names is the otolice. (Eaglone te the same as on hg. 15, Te descent to Paria is the o' a "como enter the markets affective the S-caig-and lower bed of the bemilian diff. The vien of these beds us diated up to e meeter en light is using fine, excelled of anything of the Kid Thane yet ser. Levalhatel feet of particulared fede are enaded in many beautiful forms of buttures of camon of sculptimed in an "!! made that is & proje theris

22 State I'm he wo of the service of th the chile read ourse the same contact character contact character of the same of Perman D. ch

P. P. P. = the Permion (24 choco is a coloned soud benes as the occurges! Cary along miles -6 outerate bout it to Kanab region + north of House Received wallay. alagte lie a-p'it is 62 per thick and is money a common ad altine hebbles (Silie) occur are the ophin fantion, at the M. T. en et of their exposer o there is an ald ely o xxxx undream q a attemy. agente avorian (25 the changolatione S. S.S. nos deponited, the bottom of their ex not receled on y to the tales & dit but Ithut was added to the theoline give ruhaltil fait To the dr. s. at O. the Shina lis shel the than or and, not big on 40 above the Shore-h 1.2,3,4, Cle

Unica. 26 de ficeri male in heartifully ahen tomathen the deposit sed, is a canqland preces of endaters pilirified wood ad come. One. is of local deportion as complete state dule no Ello sout mend the made real of etc. light calaed this and. The lie of ptake Cly a d. W, +5, E. 2) + Com be traced plane, a neighboreda anathe care cuto the talse to the s. E. where it is contracte apparete side of L'a van La Chiel atte 12/2 mil parto, about 200 pet of the upper perman is exposed at the deepest out in auch from point a poin

of de vemelre cliffe coursed by lo elevanti i of the state londe the Kon, place por Pania showand 1 e recetran br. 60 Brown mands with 29, massimbreme, chaires e of emed 2 and is 10 200 pm 2. She in the 140 fl 3. Mal +Brann ad, 0 0 to 50 0 to 50 ft 4. Van gabel marle. The asmed 493. fuch Redish brown Rcl to fish hed fur. hat our 150 fer

S.E. of the front who (30 the skill to as taken the stratar of the Venulaci cliffe dif N.E. 152 and the section find tother is he a tifully shown down the o'the mands 4.) and to the massine bran od hed capping the Remain, the mails rest directly on this hed & the even non Shinamh cary fres. I a sto exprended ad, Beneath the man hans och, the succession of hools etc, i the (51 1 - Le continue de la continue de Carq. There do de fresul in any features ahang shall and water and is Riphie manks, Lucal Un conformities of bedoling mud cracks + tracks by fourter offers. Annelid. He Theming out South Remian

Cliff is a feature 32 connected with the topogeration at the clase of the Perman and as the Shinaour p is them all alang Hori Rock valley thouth it least to to a min that the elevation of to Karbos was gang an at that Un Ex 12/11/202 13 Caupan 1 2 /a). ale tota. The i'm -12 Ex- e- c- to them out anid Same-de caloned INDA BELLIA it is one on ad lock, + locale, to second dight or comme an diterior about so put alors the also occis ato 1-20 mile, 4, 10 5, 5. No, and of the H. R. Valley tet but it.

3000 com a ll, and 34 9 = 11 , 12 ol , con , g = anton of the massive br. Book. at the bore of Core front the double heal of ad, come in again for a little may of the for some distance Ite Shown of at Cy about He Sumannh is not seen organin et ette met nide of the great beat and the live of reached. Here it is alamboral et 2. feet thick and reste antiè monine bron ed. ded, Zie datte bed is not alrays pres to where the congin is absent as life where marks wish on the e helicitie. mith to excelete. however of the lecalin son Paren the minimum of treat ad had was always occ. Le alle cong, It vanice as the road of alight, averes o

ité of la 22-1-1-10. 36 On chest is seen Circle 1 - 2 - 2 - 2 - 2 chill is un to the grant hy recent area in Sept. 24" Sunday In lacking manajourelle. filterts section a the west Paria creek I find that he mentioned the therming is Conglame ate from 15 to o, bet 4 that the Cong- rested on the ended days belan. En h. 175 he refers the totle 3 spreading the comments of the cong- of the is undoubtedly correct ar is shown south of Kand, hur the cliff at Pania I would atthibute to aerial enosian and not to the current alone, He abence of the Shunarunh Cong- on the line of the Karbab aplift is me arembly accomted for by the theory mention and h. 32, of this is ate book. Jossil localitiz belown Shingh Cong. montini by Gelh & thankl. fr. 176. h.285. Penro-Carp177 marine h. 213.

Seft. 25/82 38 Endeavored to got a ce ction from the Canton Inferme to Shwand her could not the so satisfactorily Nie ast of havajo welle 5 miles. C. H. H. Collected a lot of formite ú Itte Pemin l. hol is here west strongly demelded in the upper bed. Asst him for a the. Also fonda fen 8) poor famile i the Perma Cal. Sept 26, Went it Kanol to refit to make shelting tents et tents etc Oct In moved Comp to Com dural field. Oct 2 cm With C.H. H. collected a lot of Remucin forsile in the le south of Kat all gas 6 milez, Amel ganadiles, Nantilus etc. This of therese

Oc. 7. 3 Rocie ala sistemant clift & a sprand Hoticod hortion is principled water ua three 3 forth in den etem Measured con lane role multipe du e Afranch or bele 47 fest an E, side Karob gah. Motreed many horces of coare fucordo Rud also anneled bongs in the (41 eards tore unsolicitely que to confirmato 004 400 montel down to Pipe Showy, notice d'a fellouist Aram onthe besta In Penning clays about 300 beit felandshria. hoha and len - - te. 3 hin. n. Karpb wash. no possils. With Eith A. artheolock a login of

fossile 8/miles (42 of,s. Pipe appring. There appears to be but are pliation of le 3 on 4 het in the chare is, Hås outerober 6.6. Pennin de mhich has her much tea from the Hand wash crossing of cefit by a few places of everien a cut off s. of Phe shy. Lythe Long valling : fault I the Shina out congris les almost argainst. it 43 diu 8,0, Shi Shi penni Section menked er mof, a etagly marked un caferity by one is show he had the il alf, 55, w. of Pipe In the home choedate Renn eady shall are cut into 30 feet and the megalan dina 12 ahom in almost plans

004. 6 With S. C. XX CARAL colontin the in Pennil en of lare la partity as Pipe Shring. (c/- / -Sochoi of Pennan S'S'. w. of Pipe Rhiming Station 15 miles SS. W. P. ofg.

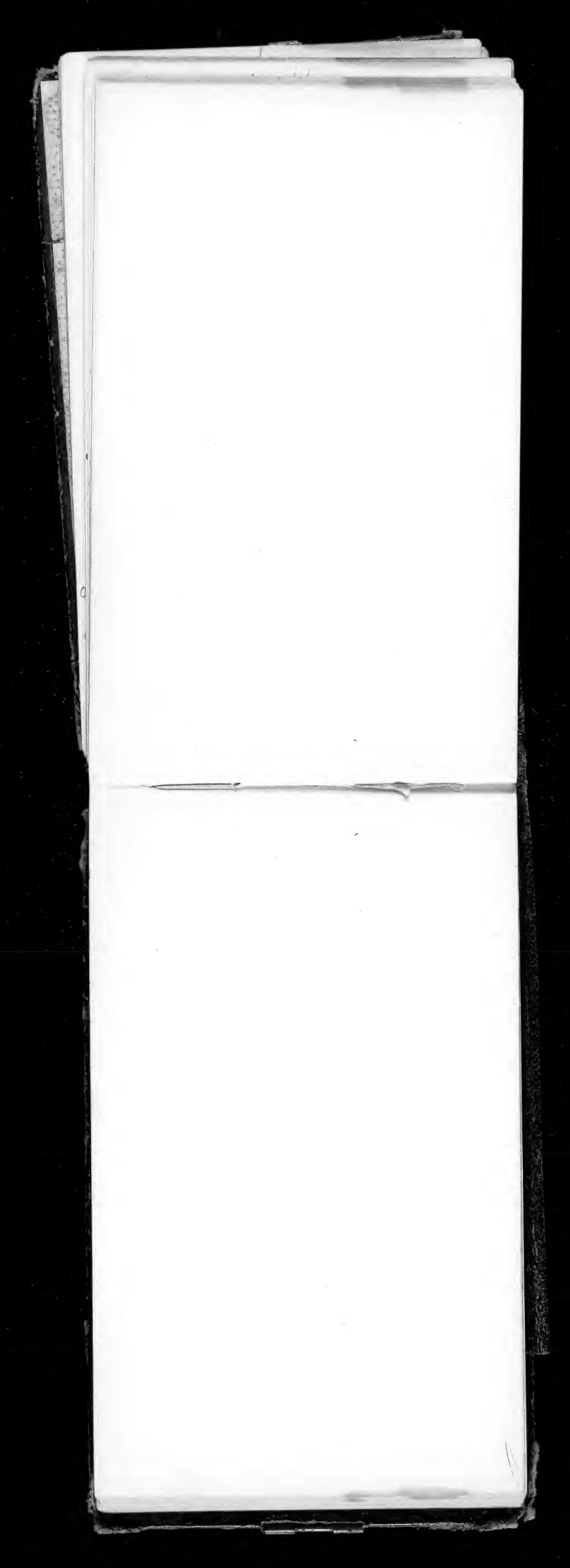
1) Granda S. Racifelando.

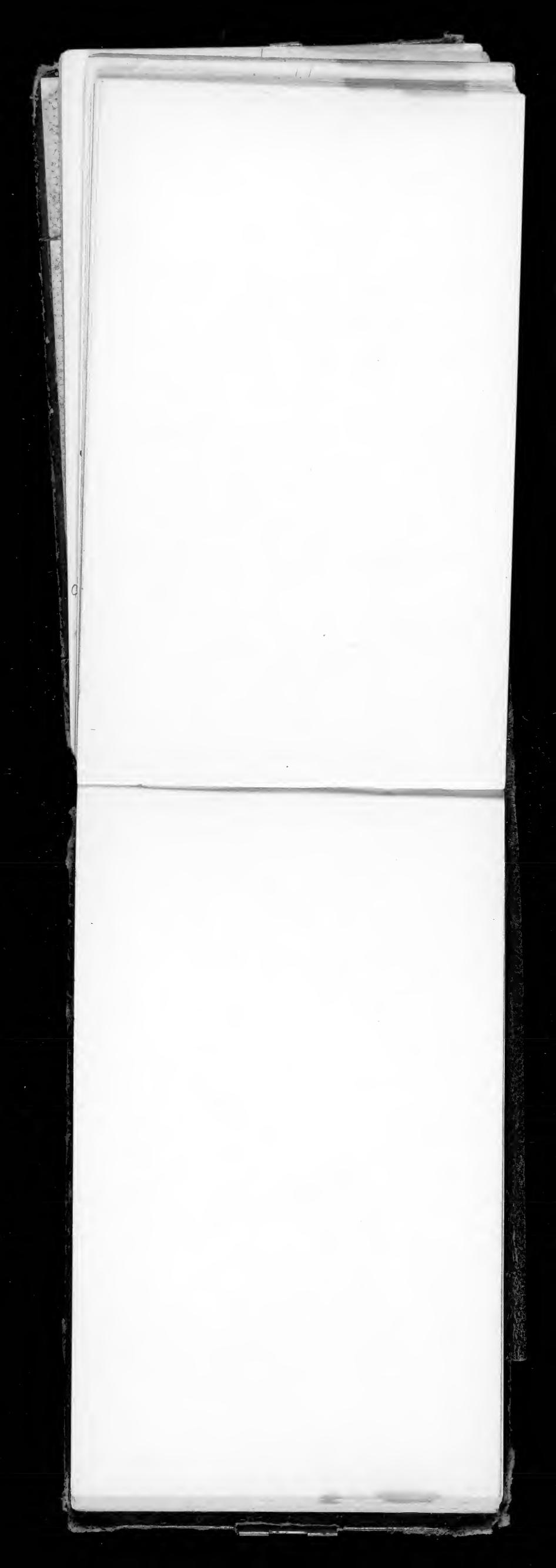
13. And of the company of the compan 1 1/2 = -2. Shaly - 26 - 1 6 45 l-carying numer Angelie . St. V. 75° 6, 19 1/20 etc.c. 3). Brown 2 and of the 99/000 245 11 Thight choese ate him alle at y mantel drob, arenouses 9 1/2008, 75- cl crys. 5) Brown, circolate act, passing into Broch . 99% clayer shelp to do mid Administrations of his

lan a loce layer Leigh 12 N. 1500, 287, Then and Cango sermit longers. The ductame for the carb - l - to de l'em in Anany a lenel plain so the thickhere was estimated lank have that 150 pertis un aleman rother the or the true the chair He where fronte in 4) of Matter a advort coloned arenace and change for and parent le le le info. gyla. - is from the throughout 4 wel often fred the little of Returned to Hand Meste See note book The I fan interval

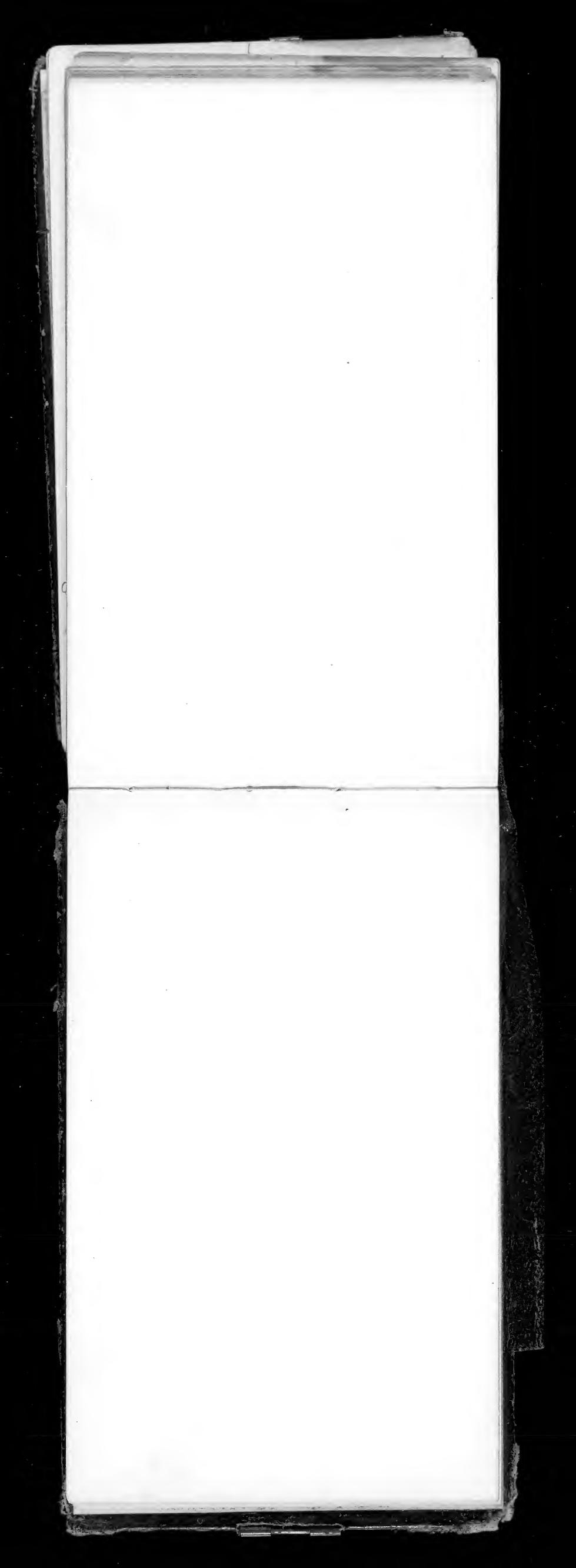
Note an Permia (48 files ... The feculian farma of the Pernina 1is undoubtedly and to the physical conditrove during the deposetian of the sectionents. a sea depasiting a mythine of clay and hand + only clear locally for the deposition of an with I line tone an aardstan would 49 only all are of the growth of forms capable of lung vader such conditions and the Mytalis & Carchin families and peprenented and the former largely deneloped, Bath of these are represented in the strong saline water of the Caspian rea the present and also noticed the

of the law houtrain of the Aubry grant. In the Permian l-Brachropode occum but thery are exceptional + probably spread from some locality where limestones mene in continuous deposition. He subject of the origin of the Colonado Permin for a is one of (51) interest & will hobaby se found to the eastrand of the Colarado ruren. In studying German faura refer to the fana just atone the autry l-, as A passesses eane ponts in common.









Boxes sent in from Milfard. Utah. to no 17. sent from per ada (no 17. 10. Plag Hermian.

7 " Sich (Trias) 21, PKg Penmai 19/9. PKg. Carb. 6 Ju Tish (Lias) 14. PKg Canb, Pemai 22) 10 PKg, Canb, 24) 14. Pkg. Gilhologie Grand Canin 11 25 17 dante forsels 14. Lethologie ditto

2). 4. Lethologié 11. Lossile. Grand Cana Penni section Mi. 3. Distance 7015 pert, Risal 4, Dolar ce 1000. Mr. Rine 124 26 26 260. 2010 istance, 5250" 120 380 640. 2871 265. 260, 66 26 280. 150

Bane of Shriam him hallon Nº1, 5450. Ditto on may, - Checology No 1 5 400 5475 11 2.58005500 Sint of Cong, 5544 5550 1, 2 5800 5550 33 264 182 2 45 3 35 287 1430. 12626 435 marez, 12.0 - 5 475 / 54 625

